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Applicant(s): Phillip Dan Cook

Title: NUCLEOBASE HETEROCYCLIC COMBINATORIALIZATION

Serial No.: 08/884,873

Filed: June 30, 1997

Docket No.: ISIS-2202 (PKL/jjkeeler)

Date Sent: July 31, 1998





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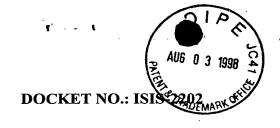
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Phillip Dan Cook

Serial No.: 08/884,873

Filing Date: June 30, 1997

**Group Art Unit: 1611** 

**Examiner: Not Yet Assigned** 

NUCLEOBASE HETEROCYCLIC COMBINATORIALIZATION

I Hereby certify that this paper if being deposited with the United States Postal Service as First Class Mail, postage prepaid on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, DC 20231.

Typed Name: Paul K. Legaard

Registration No.: 38,534

AUG 7

**Assistant Commissioner for Patents** Washington DC 20231

**GROUP 1800** 

Dear Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identifies application, no additional fee is required.

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08/05/1998 RTSEGAYE 00000106

In view of the voluminous nature of references CI and CN, and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.

**EXCEPT THAT:** 

In accordance with §1.98(d), copies of the following references listed on
the attached Form PTO-1449 are not enclosed herewith because they
were previously cited by or submitted to the U.S. Patent and Trademark
Office in patent application(s) for which a claim for priority under 35
U.S.C.§120 have been made in the instant application:
Copies of references [list as appropriate] listed on the attached Form
PTO-1449 were previously cited by or submitted to the Patent and
Trademark Office in prior application Serial No. , filed .
☐ If any of the foregoing publications are not available to the
Examiner, Applicant will endeavor to supply copies at the
Examiner's request.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

The relevance of those listed references which are not in the English language is as follows:

The Bargioni reference (AI) discloses processes of nucleophilic substitution of the 8-bromo position of purines by malonates under basic conditions.

The Bretschneider et al. reference (AQ) discloses processes of nucleophilic substitution of the 4-chloro position of pyrimidines using sulfonamides.

The Brossmer et al. reference (AS) discloses processes of nucleophilic substitution of the 4- and 6-chloro and 5-chloromethyl positions of pyrimidines using ethoxide.

The Dornow et al. reference **(BK)** discloses processes of nucleophilic substitution of the 6 methylthio position of pyrimidines using hydroxylamine.

The Kajihara et al. reference (BZ) discloses processes of nucleophilic substitution of the 2-bromo position of pyrimidines using 3-hydroxypyridine.

The Profft et al. reference **(DA)** discloses processes of nucleophilic substitution of the 2- and 6-chloro positions of pyrimidines using propoxide.

The Spiteller et al. reference (**DL**) discloses processes of nucleophilic substitution of the 2- and 6-chloro positions of pyrimidines using ethylthiolate.

English language abstracts have been provided for those references which are not in the English language.

Date:

July 31,1998

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